



# **DoD Report – Invasive Plants**

## **Excluding US Army Corp of Engineers**

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**FICMNEW Planning Retreat**

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# Disclaimer

***The views expressed herein are those of the presenter and do not reflect the official policy or position of the Department of Defense.***

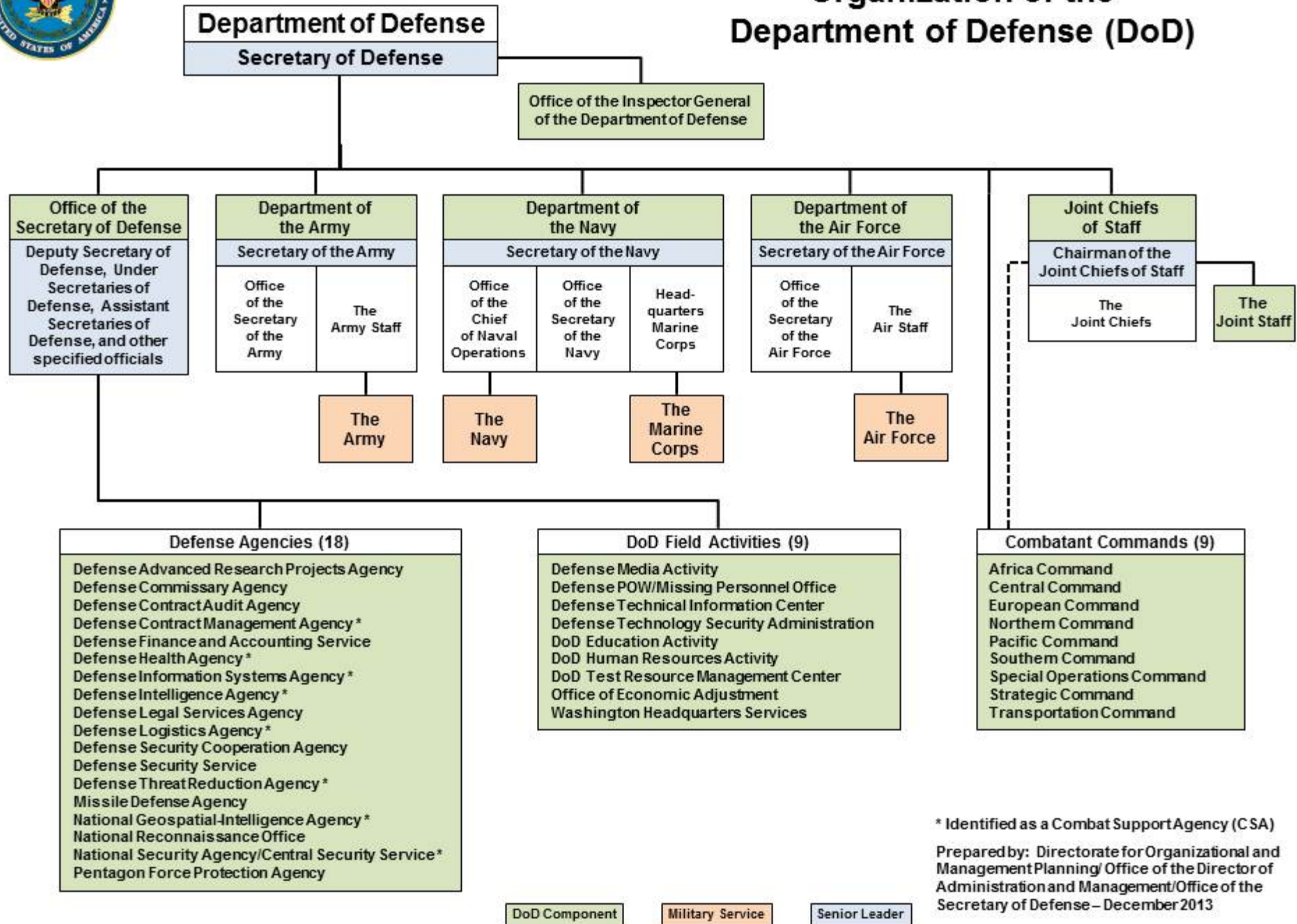


# DoD Invasive Species Overview

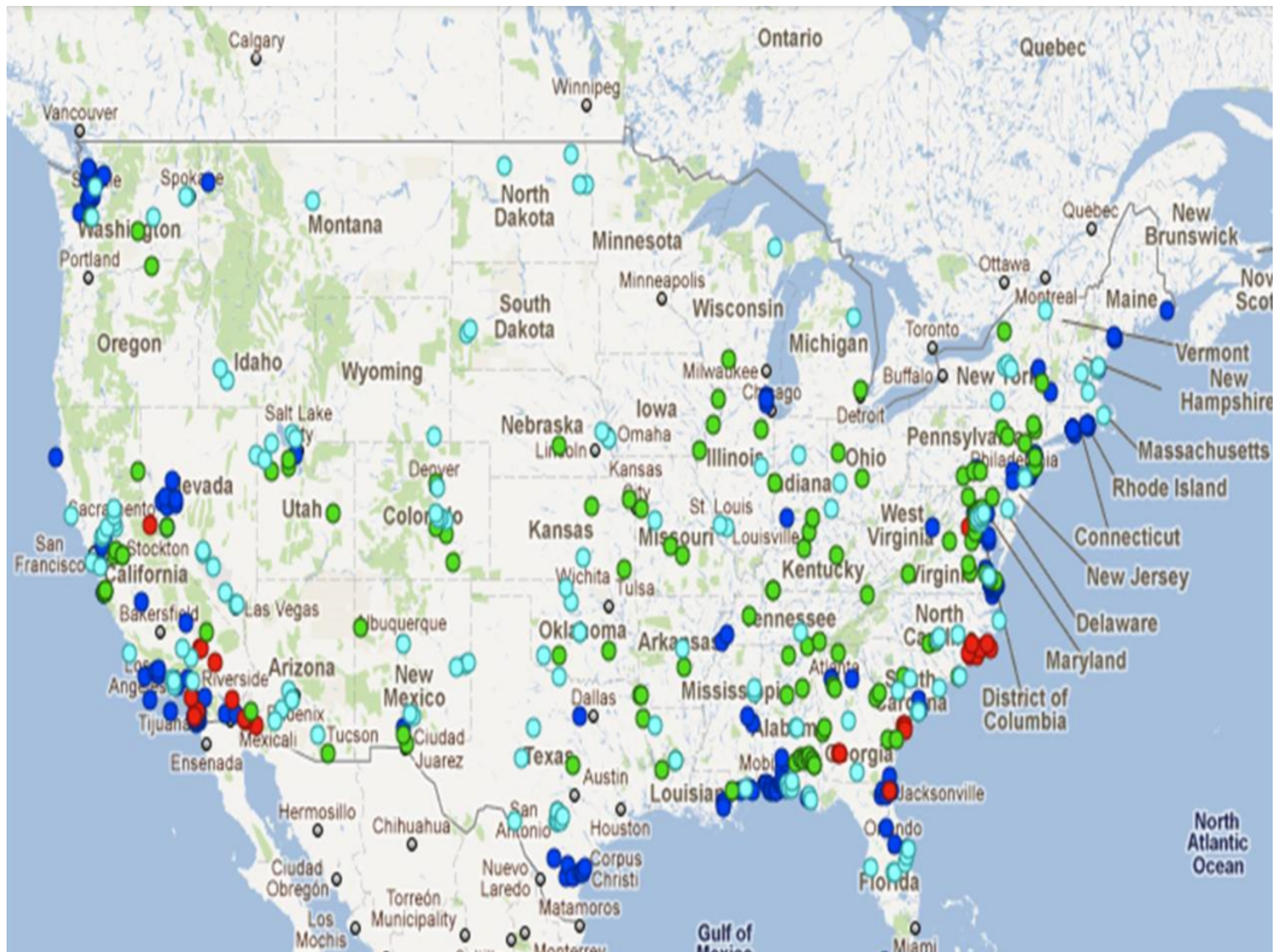
- ▶ ~425 bases, ~28M Acres, 5<sup>th</sup> largest Fed land holder
  - Diverse ecosystems, ~ 400 T&E and >500 Species at Risk
- ▶ Emphasis on military readiness training
  - Must balance military needs with stewardship requirements
- ▶ DoD IS Management / Mitigation Priorities:
  - Adversely impacting military readiness training
  - Impacting T&E Species or species at risk
  - Sikes Act enviro stewardship and Integrated Natural Resources Management Plan (INRMP) process
  - Impact historic properties
  - Retrograde cargo returning from overseas
  - Biosecurity Plans – Regional and inter-governmental



# Organization of the Department of Defense (DoD)









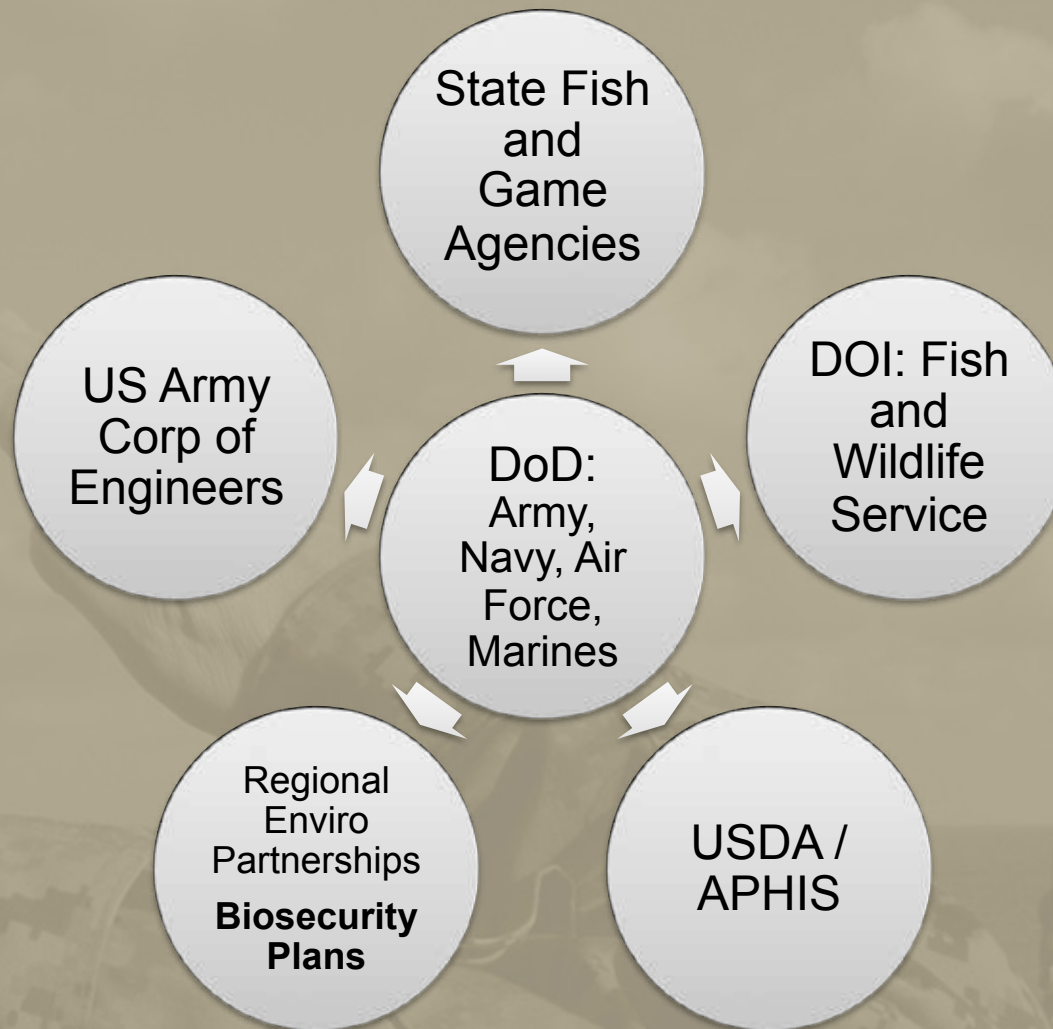
# Authorities

- ▶ **EO 13112 – Invasive Species**
- ▶ **Sikes Act:**
  - Integrated Natural Resources Management Plan (INRMP) development & implementation – W/ ESA and NEPA
  - Regulatory: DoDI (FWS) and State Fish & Game
- ▶ **DoDI 4715.03 - Natural Resources Conservation Program**
  - IS are managed via INRMP implementation
- ▶ **DoDI 4150.07 – DoD Pest Management Program**
  - Mandates compliance with EO and Service regulations
  - Requires installations to implement IPM plan
- ▶ **Service regulations (Army, Navy, Air Force, Marines)**
  - Each Service has additional IS guidance and regulations
- ▶ **DTR 4500.9R Part V – Ag cleaning & Inspection**
  - USDA Animal and Plant Health Inspection Service
  - Required Clean up and inspection of returning military equipment





# Major Partners





# DoD Legacy Resource Management Program: Key Invasive Species Projects

**From FY 91-14, Legacy Program Grants funded ~140 IS projects  
Totaling ~\$18.7M**

## Highlighted Projects:

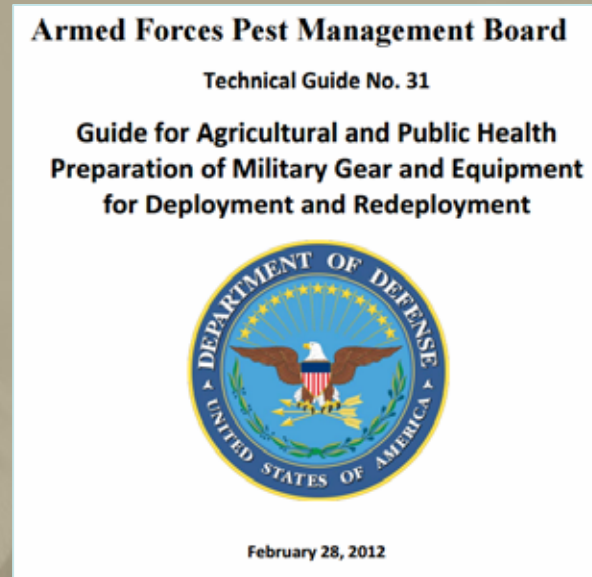
- ▶ Prioritizing Invasive Plants for Eradication, Containment, and Surveillance
- ▶ Early Detection Rapid Response Invasive Species Strike Teams
- ▶ Strategic Management of Invasive Species and Web Seminar Series
- ▶ Great Basin Species-At-Risk and Invasive Species Management
- ▶ Repellent Tools for Invasive Species Control in Military Cargo
- ▶ Cooperative Invasive Species Management Areas
- ▶ Tools: Noxious and Nuisance Plant Management Information System
- ▶ Introduction of Invasive Species from Participation in OCONUS Exercises
- ▶ Model Invasive Species Control Project: Yellow Star Thistle
- ▶ See: [http://www.dodinvasives.org/Legacy\\_Invasive\\_Species\\_Fact\\_Sheet\\_\\_final\\_\\_4-15-15.pdf](http://www.dodinvasives.org/Legacy_Invasive_Species_Fact_Sheet__final__4-15-15.pdf)
- ▶ SERDP / ESTCP – More funded IS projects from OSD





# DoD IS Resources

<http://www.dodinvases.org/Resources.html>



## Chap 7: Biodiversity on Military Lands



# DoD Invasive Species: Mission Impact Highlights



- ▶ Coconut Rhinoceros Beetle – JBPHH, 2014 – Multi agency response 3000+ traps
- ▶ Brown Tree Snake: Mitigation & Surveillance Costs DoD \$3.5M/Yr
  - Military movement in Pacific impetus for Regional Biosecurity Plan
- ▶ Yellow star-thistle: Shreds \$4K parachutes at Fort Hunter Liggett, CA
- ▶ Invasive grasses: Wildfires (no live fire), BASH
- ▶ Fire ants on training lands
- ▶ Formosan Termites – Southern Installations
- ▶ Asian Tiger mosquito – CHIKV







# Exacerbating Threatened & Endangered Species

- ▶ DoD lands harbor 425 T&E and 520 at risk species with ~250 installations having at least one listed species
- ▶ Mangrove stands takeover Hawaiian CH impacting T&E birds & plants
  - Flooding and line of site impacted
- ▶ Feral Hogs: Disturb training lands, eat /compete with T&Es
- ▶ Brown Tree Snake: Guam T&E and associate CH issues, >\$2.5M/year
  - Regional Biosecurity Plan for Micronesia and Hawaii
- ▶ Feral Cats – Most installations
- ▶ Cheat & other invasive grasses: Wildfires and altered habitats







# Mitigation Highlights

## Wildland Fire Control:

### ▶ Air Force C-130's:

- Mt Home / Saylor Creek Range, ID – Cheat Grass / Wildland fire / Sage Grouse
- BM Goldwater Range, AZ: Saharan Thistle
- Melrose Range, NM - Russian Thistle / Cheat / Halogeton
- Smokey Hill AFR, KS - Musk Thistle
- Holloman AFB, NM – Salt Cedar

### ▶ Force protection - Rotary Wing:

- JB Langley–Eustis, VA – Phragmites

## T&E Species Protection

(Karst / Cave Dweller species):

- Camp Bullis, TX: Fire ants





# Questions?

